



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/699,240

Source: IFWO

Date Processed by STIC: 11/13/2003

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221**

**Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221**

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**<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



II

## RAW SEQUENCE LISTING

DATE: 11/13/2003

PATENT APPLICATION: US/10/699,240

TIME: 15:59:50

Input Set : A:\Isis5320.ST25.txt

Output Set: N:\CRF4\11132003\J699240.raw

3 <110> APPLICANT: Cook, Phillip Dan  
 4 Sanghvi, Yogesh S.  
 5 Ross, Bruce S.  
 6 Griffey, Rich H.  
 7 Springer, Robert H.  
 8 Sprankle, Kelly G.  
 10 <120> TITLE OF INVENTION: PROCESSES FOR THE SYNTHESIS OF 2'-O-SUBSTITUTED PYRIMIDINES AND  
 11 OLIGOMERIC COMPOUNDS THEREFROM  
 13 <130> FILE REFERENCE: ISIS-5320  
 > 15 <140> CURRENT APPLICATION NUMBER: US/10/699,240  
 > 15 <141> CURRENT FILING DATE: 2003-10-31  
 15 <150> PRIOR APPLICATION NUMBER: US 09/747,009  
 16 <151> PRIOR FILING DATE: 2000-12-22  
 18 <150> PRIOR APPLICATION NUMBER: US 08/894,899  
 19 <151> PRIOR FILING DATE: 1998-01-07  
 21 <150> PRIOR APPLICATION NUMBER: PCT/US96/03174  
 22 <151> PRIOR FILING DATE: 1996-01-07  
 24 <150> PRIOR APPLICATION NUMBER: US 08/475,467  
 25 <151> PRIOR FILING DATE: 1995-06-07  
 27 <150> PRIOR APPLICATION NUMBER: US 08/398,901  
 28 <151> PRIOR FILING DATE: 1995-03-06  
 30 <160> NUMBER OF SEQ ID NOS: 31  
 32 <170> SOFTWARE: PatentIn version 3.2  
 34 <210> SEQ ID NO: 1  
 35 <211> LENGTH: 16  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: Artificial Sequence  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: Novel Sequence  
 42 <400> SEQUENCE: 1  
 43 ggaccggaag gtacga  
 46 <210> SEQ ID NO: 2  
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 49 <213> ORGANISM: Artificial Sequence  
 51 <220> FEATURE:  
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 55 <220> FEATURE:  
 56 <221> NAME/KEY: misc\_feature  
 57 <222> LOCATION: (1)..(17)  
 58 <223> OTHER INFORMATION: methyl, P=0  
 60 <400> SEQUENCE: 2  
 61 ggaccggaag guacgag

**Does Not Comply  
Corrected Diskette Needed**

*See pages  
1 to 5.*

*Insufficient  
explanation of  
the organism.*

16

*Insufficient explanation.*

17

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/699,240

DATE: 11/13/2003

TIME: 15:59:50

Input Set : A:\Isis5320.ST25.txt

Output Set: N:\CRF4\11132003\J699240.raw

64 <210> SEQ ID NO: 3  
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 66 <212> TYPE: RNA  
 67 <213> ORGANISM: Artificial Sequence  
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70 <223> OTHER INFORMATION: Novel Sequence

73 <220> FEATURE:

74 <221> NAME/KEY: misc\_feature

75 <222> LOCATION: (1)..(17)

76 <223> OTHER INFORMATION: propyl, P=O

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17

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83 <211> LENGTH: 17

84 <212> TYPE: RNA

85 <213> ORGANISM: Artificial Sequence

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88 <223> OTHER INFORMATION: Novel Sequence

91 <220> FEATURE:

92 <221> NAME/KEY: misc\_feature

93 <222> LOCATION: (1)..(17)

94 <223> OTHER INFORMATION: pentyl, P=O

96 <400> SEQUENCE: 4

97 ggaccggaag guacgag

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102 <212> TYPE: DNA

103 <213> ORGANISM: Artificial Sequence

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106 <223> OTHER INFORMATION: Novel Sequence

109 <220> FEATURE:

110 <221> NAME/KEY: misc\_feature

111 <222> LOCATION: (1)..(17)

112 <223> OTHER INFORMATION: 2'-deoxy, P=S

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120 <212> TYPE: RNA

121 <213> ORGANISM: Artificial Sequence

123 <220> FEATURE:

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126 <400> SEQUENCE: 6

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12

130 <210> SEQ ID NO: 7

131 <211> LENGTH: 12

132 <212> TYPE: RNA

133 <213> ORGANISM: Artificial Sequence

135 <220> FEATURE:

*Insufficient explanation.*

*Insufficient.*

*Insufficient.*

*Insufficient.*

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/699,240

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Input Set : A:\Isis5320.ST25.txt

Output Set: N:\CRF4\11132003\J699240.raw

|   |                                      |    |
|---|--------------------------------------|----|
| 136 <223> OTHER INFORMATION: Novel Sequence | <i>Insufficient<br/>Explanation.</i> | 12 |
| 138 <400> SEQUENCE: 7                       |                                      |    |
| 139 cuaagcaugu ca                           |                                      |    |
| 142 <210> SEQ ID NO: 8                      |                                      |    |
| 143 <211> LENGTH: 12                        |                                      |    |
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| 145 <213> ORGANISM: Artificial Sequence     |                                      |    |
| 147 <220> FEATURE:                          |                                      |    |
| 148 <223> OTHER INFORMATION: Novel Sequence | <i>Insufficient.</i>                 | 12 |
| 150 <400> SEQUENCE: 8                       |                                      |    |
| 151 cuaagcaugu ca                           |                                      |    |
| 154 <210> SEQ ID NO: 9                      |                                      |    |
| 155 <211> LENGTH: 12                        |                                      |    |
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| 159 <220> FEATURE:                          |                                      |    |
| 160 <223> OTHER INFORMATION: Novel Sequence | <i>Insufficient.</i>                 | 12 |
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| 167 <211> LENGTH: 12                        |                                      |    |
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| 169 <213> ORGANISM: Artificial Sequence     |                                      |    |
| 171 <220> FEATURE:                          |                                      |    |
| 172 <223> OTHER INFORMATION: Novel Sequence | <i>Insufficient.</i>                 | 12 |
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| 181 <213> ORGANISM: Artificial Sequence     |                                      |    |
| 183 <220> FEATURE:                          |                                      |    |
| 184 <223> OTHER INFORMATION: Novel Sequence | <i>Insufficient.</i>                 | 12 |
| 186 <400> SEQUENCE: 11                      |                                      |    |
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| 190 <210> SEQ ID NO: 12                     |                                      |    |
| 191 <211> LENGTH: 15                        |                                      |    |
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| 193 <213> ORGANISM: Artificial Sequence     |                                      |    |
| 195 <220> FEATURE:                          |                                      |    |
| 196 <223> OTHER INFORMATION: Novel Sequence | <i>Insufficient.</i>                 | 15 |
| 198 <400> SEQUENCE: 12                      |                                      |    |
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| 202 <210> SEQ ID NO: 13                     |                                      |    |
| 203 <211> LENGTH: 15                        |                                      |    |
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| 205 <213> ORGANISM: Artificial Sequence     |                                      |    |
| 207 <220> FEATURE:                          |                                      |    |
| 208 <223> OTHER INFORMATION: Novel Sequence | <i>Insufficient.</i>                 |    |

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/10/699,240

DATE: 11/13/2003  
 TIME: 15:59:50

Input Set : A:\Isis5320.ST25.txt  
 Output Set: N:\CRF4\11132003\J699240.raw

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| 210 <400> SEQUENCE: 13                      |    |
| 211 cgactatgca agtac                        | 15 |
| 214 <210> SEQ ID NO: 14                     |    |
| 215 <211> LENGTH: 15                        |    |
| 216 <212> TYPE: DNA                         |    |
| 217 <213> ORGANISM: Artificial Sequence     |    |
| 219 <220> FEATURE:                          |    |
| 220 <223> OTHER INFORMATION: Novel Sequence |    |
| 222 <400> SEQUENCE: 14                      |    |
| 223 cgactatgca agtac                        | 15 |
| 226 <210> SEQ ID NO: 15                     |    |
| 227 <211> LENGTH: 15                        |    |
| 228 <212> TYPE: DNA                         |    |
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| 231 <220> FEATURE:                          |    |
| 232 <223> OTHER INFORMATION: Novel Sequence |    |
| 234 <400> SEQUENCE: 15                      |    |
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| 238 <210> SEQ ID NO: 16                     |    |
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| 241 <213> ORGANISM: Artificial Sequence     |    |
| 243 <220> FEATURE:                          |    |
| 244 <223> OTHER INFORMATION: Novel Sequence |    |
| 246 <400> SEQUENCE: 16                      |    |
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| 250 <210> SEQ ID NO: 17                     |    |
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| 255 <220> FEATURE:                          |    |
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| 270 <400> SEQUENCE: 18                      |    |
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| 274 <210> SEQ ID NO: 19                     |    |
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| 276 <212> TYPE: RNA                         |    |
| 277 <213> ORGANISM: Artificial Sequence     |    |
| 279 <220> FEATURE:                          |    |
| 280 <223> OTHER INFORMATION: Novel Sequence |    |
| 282 <400> SEQUENCE: 19                      |    |

*Insufficient  
 explanation.*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/699,240

DATE: 11/13/2003

TIME: 15:59:50

Input Set : A:\Isis5320.ST25.txt

Output Set: N:\CRF4\11132003\J699240.raw

283 ggaccggaag quacgag 17  
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 294 <400> SEQUENCE: 20  
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 300 <212> TYPE: DNA  
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 307 ggaccggaag gtacgag 17  
 310 <210> SEQ ID NO: 22  
 311 <211> LENGTH: 18  
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 315 <220> FEATURE:  
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 325 <213> ORGANISM: Artificial Sequence  
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 330 <400> SEQUENCE: 23  
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 354 <400> SEQUENCE: 25  
 355 tgggagccat agcgaggc 18

*Inefficient explanation.*

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/699,240

DATE: 11/13/2003

TIME: 15:59:51

Input Set : A:\Isis5320.ST25.txt

Output Set: N:\CRF4\11132003\J699240.raw

5 M:270 C: Current Application Number differs, Replaced Current Application No  
5 M:271 C: Current Filing Date differs, Replaced Current Filing Date